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Product datasheet for SC120510

DNA helicase HEL308 (HELQ) (NM_133636) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA helicase HEL308 (HELQ) (NM_133636) Human Untagged Clone
Tag:	Tag Free
Symbol:	HELQ
Synonyms:	HEL308
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_133636, the custom clone sequence may differ by one or more nucleotides

ATGGATGAATGTGGTTCCCGCATCCGCCGGCGGGTGTCTCTCCCCAAAAGGAACCGTCCAAGCTTGGGGT
GTATTTTTGGCGCTCCCACCGCGGCCGAGCTCGAGCCCGGAGATGAGGGGAAAGAGGAGGAGGAAATGGT
GGCTGAGAACAGGAGGCGGAAAACCGCGGGCGTACTGCCGGTTGAGGTACAGCCCCTTCTACTCTCAGAT
TCCCCGGAATGTCTCGTCCTTGGAGGTGGTGATACAAACCCGGACCTCCTACGTCACATGCCCACTGACA
GAGGGGTGGGAGACCAGCCTAATGACAGTGAAGTGGACATGTTTGGTGACTATGATAGCTTTACTGAAAA
CTCCTTTATAGCTCAAGTTGACGACCTGGAACAAAAATATATGCAACTCCCTGAACATAAGAAACATGCT
ACAGACTTTGCCACTGAAAATCTTTGCTCGGAAAGTATCAAAAACAAACTCAGCATTACTACCATAGGCA
ACCTTACTGAATTACAAACTGATAAGCACACAGAGAACCAGAGTGGATATGAAGGTGTCACTATTGAACC
TGGAGCTGATCTTTTGTATGATGTACCTTCCTCACAGGCTATATACTTTGAAAATTTGCAGAACTCTTCA
AATGATTTGGGTGATCATTCTATGAAAGAAAGGGATTGGAAGTCATCCTCTCACAACACTGTGAATGAGG
AACTGCCCCATAATTGCATAGAGCAACCCCAGCAAAATGATGAGTCCTCTTCCAAAGTCAGAACTAGTTC
AGATATGAACAGGAGAAAAAGTATTAAAGATCATCTAAAAAATGCCATGACTGGAAATGCGAAGGCCCAG
ACACCAATATTTTCTAGAAGTAAACAGCTCAAAGACACTCTCCTATCTGAGGAAATTAATGTTGCTAAGA
AAACAGTTGAGTCATCATCAAATGACCTTGGTCCTTTTTATTCATTACCCAGCAAAGTGAGAGACCTTTA
TGCCCAATTCAAGGGAATTGAAAAATTATATGAATGGCAACATACTTGTTTAACATTGAATTCTGTGCAA
GAAAGAAAAAATTTAATATATTCCTTGCCAACAAGTGGTGGAAAAACCCTCGTGGCTGAGATTTTAATGC
TGCAAGAACTGCTTTGCTGTCGGAAAGATGTTTTAATGATTCTTCCATATGTGGCAATTGTCCAAGAAAA
GATTTCAGGTTTGTCAAGTTTTGGTATAGAACTCGGTTTCTTTGTTGAAGAATATGCTGGAAGCAAAGGA
AGATTTCCTCCAACTAAAAGAAGGGAAAAGAAATCACTCTATATTGCCACTATTGAAAAAGGACATAGCT
TGGTGAACTCCTTGATTGAAACTGGAAGAATTGACAGTCTGGGTCTGGTTGTTGTAGACGAGTTGCACAT
GATTGGTGAAGGAAGCCGTGGAGCTACACTGGAAATGACCCTAGCAAAAATCCTCTACACTAGCAAAACG
ACTCAAATTATTGGTATGAGTGCAACATTAAACAATGTTGAAGACCTACAAAAGTTTCTTCAAGCAGAAT
ATTATACCAGTCAATTTAGACCAGTTGAGTTAAAAGAATATCTGAAAATAAATGATACAATATATGAAGT
TGACAGCAAAGCTGAGAATGGCATGACTTTTTCACGTCTTCTTAATTATAAGTATTCTGATACCCTAAAA

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AAGATGGATCCTGATCACTTGGTAGCATTGGTGACAGAAGTTATTCCCAATTATTCCTGCTTAGTTTTTT
GTCCTAGTAAGAAGAACTGTGAAAATGTAGCAGAAATGATATGCAAATTTTTAAGCAAGGAATATCTGAA
ACATAAGGAGAAAGAAAAATGTGAGGTGATTAAGAACTTGAAGAATATTGGCAATGGCAACCTGTGTCCT
GTTTTAAAGCGCACTATCCCATTTGGAGTTGCCTATCACCACAGTGGCTTAACAAGTGATGAAAGGAAAC
TCTTGGAGGAGGCCTACTCCACAGGAGTGCTCTGTCTTTTTACCTGCACATCTACCCTAGCGGCAGGTGT
CAACCTACCAGCTCGAAGAGTTATTTTAAGAGCTCCCTATGTTGCTAAGGAATTTTTAAAGAGGAATCAA
TATAAACAGATGATTGGCAGAGCTGGTCGTGCTGGAATAGATACTATTGGGGAGAGTATCCTCATATTGC
AAGAAAAAGACAAACAACAGGTATTGGAGTTAATAACTAAACCATTGGAAAACTGTTACAGCCATCTTGT
TCAGGAATTCACCAAGGGAATCCAAACATTATTTCTCTCTTTGATTGGTTTGAAGATTGCAACGAATCTT
GATGACATCTATCATTTCATGAATGGTACATTTTTTGGTGTTCAGCAAAAGGTTTTATTGAAAGAAAAAA
GTCTCTGGGAAATAACTGTTGAATCACTTAGATACCTGACAGAAAAAGGACTCCTACAAAAAGACACTAT
TTATAAGTCTGAAGAAGAGGTCCAATATAATTTTCATATTACAAAGTTGGGACGTGCTTCATTTAAGGGA
ACTATAGATTTAGCTTATTGTGACATTCTGTACAGAGACTTGAAGAAAGGTCTTGAAGGACTTGTGCTTG
AAAGCCTTCTTCATCTAATCTACCTAACAACCCCCTATGATCTGGTTTCACAGTGTAACCCTGATTGGAT
GATATACTTCAGGCAGTTTAGCCAACTCAGTCCAGCAGAACAAAATGTAGCTGCCATTCTTGGAGTCTCT
GAAAGCTTTATTGGGAAGAAAGCATCAGGCCAAGCCATCGGAAAGAAGGTGGACAAGAACGTTGTCAACA
GGCTATATCTGTCTTTTGTTCTTTATACCTTGCTCAAAGAGACCAACATTTGGACTGTATCTGAAAAATT
TAATATGCCTCGAGGATATATACAAAATCTTCTCACTGGAACTGCCTCATTCTCATCTTGTGTGTTACAT
TTCTGTGAGGAGCTTGAGGAGTTTTGGGTTTACAGAGCCCTTTTGGTAGAACTTACCAAGAAGCTGACTT
ACTGTGTAAAGGCAGAATTAATCCCTCTCATGGAAGTTACTGGAGTTTTAGAGGGTCGAGCAAAACAGTT
ATACAGTGCAGGTTACAAAAGTCTAATGCACTTAGCTAATGCAAATCCTGAAGTGCTCGTAAGGACAATT
GATCATTTATCAAGACGCCAAGCCAAGCAAATTGTTTCATCAGCAAAGATGCTGTTGCATGAAAAAGCAG
AAGCCCTGCAAGAAGAGGTAGAAGAGTTACTAAGATTGCCTTCTGATTTCCCTGGTGCTGTGGCTTCTTC
CACTGACAAAGCATGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_133636 unedited
GCGCCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGC
TCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAATTC
GGCACGAGGGGTGGATGTAGAAGCGGGCTCCGGCGTCCCACTCTCCCTTCCATATGGGCT
TAGCGTCTGGGTCACTGAGAACGACGTCTGAATAGGGCCCTGGGTCCTTGCCATGGATGA
ATGTGGTTCCCGCATCCGCCGGCGGGTGTCTCTCCCCAAAAGGAACCGTCCAAGCTTGGG
GTGTATTTTTGGCGCTCCCACCGCGGCCGAGCTCGAGCCCGGAGATGAGGGGAAAGAGGA
GGAGGAAATGGTGGCTGAGAACAGGAGGCGGAAAACCGCGGGCGTACTGCCGGTTGAGGT
ACAGCCCCTTCTACTCTCAGATTCCCCGGAATGTCTCGTCCTTGGAGGTGGTGATACAAA
CCCGGACCTCCTACGTCACATGCCCACTGACAGAGGGGTGGGAGACCAGCCTAATGACAG
TGAAGTGGACATGTTTGGTGACTATGATAGCTTTACTGAAAACTCCTTTATAGCTCAAGT
TGACGACCTGGAACAAAAATATATGCAACTCCCTGAACATAAGAAACATGCTACAGACTT
TGCCACTGAAAATCTTTGCTCGGAAAGTATCAAANACAAACTCAGCATTACTACCATAGG
CAACCTTACTGAATTACAAACTGATAAGCACACAGAGAACCAGAGTGGATATGAAGGTGT
CACTATTGAACCTGGAGCTGATCTTTTGTATGATGTACCTTCCTCACAGCTATATACTTT
GNAAAAATTGCAGACTCTTCAATGATTTGGGTGATCATTCTATGAAAGAAAGGGATTGGN
AGTCATCCTCTCACACACTGTGAAATGAGAACTGCCCCATATTTGCTAGAGCACCCCAGC
AAATGATGAGTCCTCTTCCAAAGTCGAACTAGTTCAGANTGAC

Restriction Sites: NotI-NotI

ACCN: NM_133636

Insert Size: 4000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_133636.1, NP_598375.1

RefSeq Size: 3591 bp

RefSeq ORF: 3306 bp

Locus ID: 113510

UniProt ID: Q8TDG4

Cytogenetics: 4q21.23

Domains: DEAD, helicase_C

Gene Summary: HEL308 is a single-stranded DNA-dependent ATPase and DNA helicase (Marini and Wood, 2002 [PubMed 11751861]).[supplied by OMIM, Mar 2008]
Transcript Variant: This variant (1) encodes the longest isoform (1).